

PAT-NO: JP409281209A

DOCUMENT-IDENTIFIER: JP 09281209 A

TITLE: GPS RECEIVER

PUBN-DATE: October 31, 1997

INVENTOR-INFORMATION:

NAME

TSUCHIYA, MANABU

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MATSUSHITA ELECTRIC IND CO LTD

N/A

APPL-NO: JP08095576

APPL-DATE: April 17, 1996

INT-CL (IPC): G01S005/14

ABSTRACT:

PROBLEM TO BE SOLVED: To quickly start the position determination computations even though the RTC of a GPS receiver fails and the initial position is erroneous by randomly scanning only one channel of the receiver which has plural channels.

SOLUTION: The receiver is provided with a detection section 2 which has plural channels, a position determination section 3 which conducts the position determination computations from the locations of the GPS satellites and the electromagnetic wave propagation time, a storage section 4 which stores the position of the receiver, an RTC 5 which outputs the present time and a tracking satellite selecting section 7 which selects the satellites that are transmitting the signals to be received by the section 2 located at a certain

position. Since the random scanning of the GPS satellites is conducted by using only one channel of the section 1, the electromagnetic waves from an arbitrary GPS satellite, which is not selected by the section 7, are always received by the receiver. Therefore, correct time and an approximate position are obtained and the position determination computations are quickly started.

COPYRIGHT: (C)1997,JPO